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DATE MAILED: 12/13/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,856	09/22/2003	Elve Desiderius Jozef Moons	Q76501	4325
7590 12/13/2004			EXAMINER	
SUGHRUE N			NGUYEN, KHANH V	
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			ART UNIT	PAPER NUMBER
			2817	

Please find below and/or attached an Office communication concerning this application or proceeding.

		$i\mathcal{N}_{\ell}$				
	Application No.	Applicant(s)				
	10/664,856	MOONS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Khanh V. Nguyen	2817				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of thi od will apply and will expire SIX (6) MOI ute, cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status		•				
1)⊠ Responsive to communication(s) filed on 22	September 2003					
	•					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☑ Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☑ Claim(s) 5-13 is/are allowed. 6) ☑ Claim(s) 1 and 2 is/are rejected. 7) ☑ Claim(s) 3 and 4 is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers		•				
9)☐ The specification is objected to by the Exami 10)☑ The drawing(s) filed on 22 September 2003 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the	s/are: a) ☐ accepted or b) ☐ accepted or b) ☐ ne drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. Ents have been received in Actionity documents have been eau (PCT Rule 17.2(a)).	Application No received in this National Stage				
Attachmont/s						
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	A) Thenian	Summary (PTO-413)				
Notice of References Cited (FTO-692) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of References Cited (FTO-692) Paper Notice of References Cited (FTO-692)	Paper No(s)/Mail Date Informal Patent Application (PTO-152)				

DETAILED ACTION

Examiner's Comments

The word(s) "backtermination" and "backterminating" are sometimes written as one or two words (see claims 1, 3-5, 7-9). Examiner suggests these words should be written as two separate words.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "VA2 and VA3" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will

be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 1, 2, 4, 10, 12 are objected to because of the following informalities:

Claim 1, line 22, after an inserts --first--.

Claim 2, ["said non-linear amplifier (A2 ',A2") is operating <u>between</u> a first power supply (VA2)", "while said linear amplifier (A3,'A3") is operating <u>between</u> a second power supply (VA3)" which exceeds the supply voltage of <u>said</u> first power supply source]. Using the word <u>"between"</u> causes the claimed subject matters appear to be incomplete. Should "between" be deleted?

Claim 2 recites the limitation "said first power supply source" in line 4 should correctly be -- first power supply source --.

Claim 10, note preamble "any of the previous claims" is incorrect since the body of this claim discloses "arrangement output terminals" which recited in independent claim 5 while claim 1 recites "arrangement output terminal". As such, line 5, after claims inserts –5 to 7, 8 or 9–.

Claim 10, page 17, line 9, "terminating resistance" should correctly be -- terminating impedance--.

Claim 10, page 17, line 12, "series resistance" should correctly be --series impedance--.

Claim 12, line 2, "1" should correctly be --5-. Note "<u>respective</u> series impedance" is claimed in claim 5 and not claim 1.

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Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 are rejected under 35 U.S.C. 102(b) as being anticipated by Weigand (5,374,966).

Weigand (Fig. 11) discloses an amplifier circuit arrangement comprising: an amplifier (114) can be read as a non-linear amplifier having a pair of input terminals one of which is coupled to an input terminal (14), and an output terminal (Vout); an amplifier (112) can be read as a linear amplifier having a pair of input terminals one of which is coupled to the input terminal (14), and an output terminal (Vout); whereby the output terminal of the amplifier (114) is coupled to the output terminal of the amplifier (112) via an series impedance (R7, R6), whereby the output terminal of the amplifier (112) is coupled to the output terminal (Vout) via a resistor (R4) which can be read as a terminating impedance, and whereby the arrangement further includes a resistor (Rf) which can be read as aback termination arrangement coupled between the output terminal (Vout) and one of the input terminals of the amplifier (112).

Allowable Subject Matter

Claims 3 and 4 are objected to as being dependent upon a rejected base claim. but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 5-13 are allowed.

Claims 3-13 call for, among others, second input, second output, second terminating impedance and second active backtermination.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (McInnis (6,300,828)) shows further analogous prior art circuitry.

This art is deemed relevant and should be carefully reviews before any amendment is filed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHANH V. NGUYEN

Khauh Cartgurper